

CONTINUOUS CARDIAC PERFUSION PRESERVATION WITH PEG-HB FOR
IMPROVED HYPOTHERMIC STORAGE

Abstract of the Disclosure

5 Efforts to extend myocardial preservation for transplantation by perfusion with prior
crystalloid based solutions have been limited by edema and compromised function.
Hypothermic perfusion preservation with a polyethylene glycol (PEG) conjugated
hemoglobin solution extends preservation times. The polyethylene glycol (PEG)
conjugated hemoglobin solution comprises PEG-Hb, and at least one of the constituents
10 selected from the group of human albumin, dextrose, heparin sodium, lidocaine HCl,
MgSO₄, KCl, CaCl₂, Tromethamine (THAM) solution, NaCl, NaHCO₃, and
Na₂HP0₄/NaH₂P0₄. Comparison of cardiac function after continuous perfusion using a
hypocalcemic normokalemic crystalloid perfusate is made with and without the addition of
PEG-Hemoglobin (Hb).